




Axis Capital Group Review: Technology Soars Forward



In the beginning of the new millennium, the construction equipment market seemed to be at a crossroads, as existing equipment technology gets hold of a highpoint and new technologies started to arise. Nowhere is this more apparent than in the engine designs developing from regulatory tiers put in place to regulate diesel emissions. New and more highly engineered power sources have materialized with each tier, allowing equipment performance and functionality that some would have called impossible a decade ago.

(Axis Capital Group is servicing Southeast Asia countries such as KL Malaysia, Beijing China, Jakarta Indonesia and many more.)


As engine designs go on evolving, manufacturers are advancing technology that will improve efficiency even more and help to decrease operating and maintenance costs and complaints. Take the latest progressions that have allowed numerous suppliers to make known diesel particulate filters, as soon as the mainstay in exhaust after treatment, needless to control emissions



output. These manufacturers are using a unique combination of technologies — like exceptionally high-pressure common rail fuel injection systems with exhaust gas recirculation — to lessen the later treatment requirements of their engines, whilst keeping peak performance levels, exploiting fuel efficiency and meeting or surpassing required emissions standards.

Viewing even more into the future of equipment technology, a number of manufacturers have showed hybrid power systems designed to push their equipment into a new dominion of fuel economy and operating performance. Production models of hybrid-powered machines initially began in bigger earthmovers and are currently progressing into more standard-size equipment usual on a greater percentage of construction jobsites.

In instance, full-size excavators are arising as the next springboard for hybrid power systems. The capability of hybrid systems to gain what was formerly measured



as “wasted” energy during common functions like carriage swing is not anything short of revolutionary for an industry not frequently regarded by outsiders as a technology leader. Such advancements are demoted to high-production machines at this time, however as with other advancements, are intended to move around into more utility size machines as the industry and economics command.

Achievements reviews over the previous decade have pushed the construction industry to different heights in technological advancements and more is yet to come. Evidently, what we’re experiencing in terms of power system technology is simply the tip of the iceberg. The industry is composed to see giant leaps forward.

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